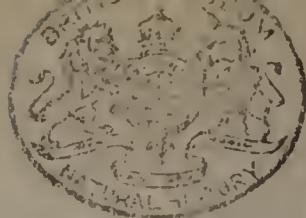


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MUSEUM
27 APR 25
NATURAL
HISTORY.

ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR THE YEAR

1924

PRESENTED TO THE ANNUAL MEETING,

FEBRUARY 9th, 1925.

PRINTED BY ORDER OF THE COUNCIL.

1925.

[Issued April 17th, 1925.]

The Yorkshire Museum,
York.

With the Compliments of

Dr. W. E. COLLINGE,

Keeper of the Museum.

ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR THE YEAR
1924
PRESENTED TO THE ANNUAL MEETING,
FEBRUARY 9th, 1925.

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1925.

[Issued April 17th, 1925.]



FORM
OF A
BEQUEST TO THE SOCIETY.

—o—

Every person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form:—

I give and bequeath to the Trustees, for the time being, of the Society established at York, called "The Yorkshire Philosophical Society," for the use of the said Society, the sum of to be paid out of such part of my personal estate as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.

The Yorkshire Philosophical Society.

(Founded 1822).

Patrons:

HIS MAJESTY THE KING. HER MAJESTY THE QUEEN.
QUEEN ALEXANDRA.

Trustees:

GEORGE A. AUDEN, M.D. CHAS. E. ELMHIRST, J.P.
RT. HON. LORD DERAMORE. SIR GEORGE GIBB, LL.B.
EDWIN GRAY, M.A., LL.M., J.P.

President:

William Herbert St. Quintin, D.L., J.P., F.Z.S.

Vice-Presidents:

James Melrose, J.P.	W. Harvey Brook.
Richard Thompson.	S. Walker, F.E.S.
H. M. Platnauer, B.Sc.	George Benson, A.R.I.B.A.
Frank Green, F.S.A.	W. A. Evelyn, M.A., M.D.
Edwin Gray, M.A., LL.M., J.P.	(Cantab.)
Chas. E. Elmhirst, J.P.	Ald. W. H. Birch, J.P.
H. J. Wilkinson.	

Council:

Elected 1923... Arthur Hurst, A.K.C.
Rev. A. Raine, B.A.
J. Scott.
K. E. T. Wilkinson, LL.M., B.A.

Elected 1924... T. G. Swale.
Frank Terry.
Geoffrey Thompson, M.A.
Col. W. A. White, J.P.

Elected 1925... J. L. Brockbank, M.A., H.M.I.
John A. Cooper.
Sydney H. Smith.
J. Triffitt.

Hon. Treasurer:

S. Walker, F.E.S.

Hon. Secretary:

Chas. E. Elmhirst, J.P.

Committees—

General Purposes and Finance Committee :

J. L. Brockbank.	Rev. A. Raine.
W. Harvey Brook.	J. Triffitt.
John A. Cooper.	S. Walker.
Dr. W. A. Evelyn.	H. J. Wilkinson.
A. Hurst.	Chas. E. Elmhirst, <i>Secretary.</i>

Garden Committee :

Arthur Hurst.	Col. W. A. White.
Sydney H. Smith.	H. J. Wilkinson.
T. G. Swale.	K. E. T. Wilkinson.
	S. Walker, <i>Secretary.</i>

Lecture Committee :

J. L. Brockbank.	Frank Terry.
Dr. W. A. Evelyn.	Geoffrey Thompson.
Rev. A. Raine.	K. E. T. Wilkinson.
Sydney H. Smith.	C. E. Elmhirst, <i>Secretary.</i>

Museum Committee :

George Benson.	Rev. A. Raine.
W. Harvey Brook.	J. Scott.
Dr. W. A. Evelyn.	Geoffrey Thompson.
Arthur Hurst.	S. Walker.
Rev. W. Johnson.	H. J. Wilkinson.
W. H. St. Quintin.	Dr. Collinge, <i>Secretary.</i>

The President, Hon. Secretary and Keeper are *ex-officio* members of all Committees.

York and District Field Naturalists' Section.

President :

Walter E. Collinge, D.Sc., M.Sc., F.S.A., F.L.S., M.B.O.U.

Vice-Presidents :

J. A. Dell, M.Sc., W. G. Birch, V. G. F. Zimmermann, H. Sowden.

Hon. Secretary : Sidney Melmore, B.Sc., F.G.S.

REPORT OF THE COUNCIL
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
FEBRUARY 9TH, 1925.

IN presenting their annual report, for the year 1924, your Council are pleased to record that it has been one of steady progress.

Early in the year a Sub-Committee was appointed to deal with a Report received from the Keeper with reference to the provision of better accommodation for the Roman Antiquities. Dr. R. E. Stradling, M.Sc., Ph.D., A.M.I.C.E.; Professor Percy Kendal, M.Sc., F.R.S.; Mr. R. G. Collingwood, M.A., F.S.A., and Mr. W. H. Brierley, F.S.A.; each inspected the Hospitium and its contents and reported upon the same. The Sub-Committee reported to your Council and recommended that prompt action to provide suitable housing accommodation should be undertaken, either by making the Hospitium suitable for the purpose, or alternatively, by providing accommodation elsewhere.

After considering this report your Council re-appointed the Committee and they have reported that after very careful consideration they are of opinion that the Hospitium cannot be made suitable and the only site for an extension of the Museum which would provide adequate accommodation for the Roman Antiquities, a Library and Council Room, and work rooms, is that on the south-east side of the Museum. Such an addition they believe could be made at a cost of approximately £16,000, and the matter is still under consideration.

This report your Council have received, and authorised the General Purposes and Finance Committee to prepare a financial appeal, to which it is hoped that every member of the Society will endeavour to contribute.

During the year considerable repairs have been carried out and are still being continued on the roofs and frontage of the Museum and the roof of the Tempest Anderson Hall.

The following is a full list of the Lectures delivered in the Tempest Anderson Hall during the past year:—

Thursday, January 10th.—Lantern Night.

Thursday, January 24th.—“The Philippines.” By Major A. E. N. Salt, M.A

Thursday, February 7th.—“The Wonders of the Mind,” By the Rev. F. Paton Williams.

Thursday, February 21st.—“The Tale of Two Cities.” By the Rev. A. R. Runnells Moss.

Thursday, March 6th.—“The Distribution of Race Types in Europe.” By Professor H. J. Fleure, D.Sc.

Thursday, October 9th.—“On the Trail of the Cowboy.” By P. Escott-North.

Thursday, October 23rd.—“The Life History of the Salmon.” By William Hunter, F.Z.S.

Thursday, November 6th.—“The Heart of Africa.” By Major W. J. Cuthbert Hughes.

Thursday, December 11th.—“Unrecorded Experiences at Scotland Yard.” By Sir Basil Thomson, K.C.B.

Thursday, December 18th.—“The Awakening of Formosa.” By Major Owen Rutter, F.R.G.S.

The number of visitors to the Gardens and Museums exceeds that of any previous year.

The Council note with pleasure that the Council of the Royal Horticultural Society have conferred upon one of our Honorary Members, George Yeld, Esq. (a former member of the Council of the Yorkshire Philosophical Society), the Victoria Medal of Honour.

Your Council regret to record the decease of Edmund M. Smith, M.D., D.P.H., who, as a member, and at the time of his decease as a member of the Council, has ever taken a keen and active interest in the Society's welfare; Mr. George Webster, a temporary member of the staff, who has taken particular interest in the Botanic Garden and Herbarium, and Mr. George Potter-Kirby, a previous member of the Council; also Sir Archibald Geikie, O.M., K.C.B., D.C.L., LL.D., the famous geologist, and one of the Society's oldest Honorary Members.

The Society has lost by death and resignation 43 Members, 5 Associates, and 8 Lady Subscribers, whilst 51 new Members have been elected. The total number of Members on December 31st stood at 591.

NEW MEMBERS, ELECTED IN 1924.

- Adamson, R. B., 21, Clifton Dale
Allen, S., 17, Bootham Crescent
Barratt, J., City Temperance Hotel, Lendal
Bex, C. J. Townshend House
Blackburn, H., 10, Longfield Terrace
Border, E. G., "Newstead," Burton Stone Lane
Bowman, F., 24, Monkgate
Brighting, Mrs. A., "Ivyholme," The Esplanade
Bromehead, C. E. N., B.A., 52, Bootham
Burrell, Miss, 2, Ellison Terrace
Cahill, R. S., 34, Haxby Road
Coverdale, G. A., 5, Grosvenor Terrace
Davill, J. R., 18, Rougier Street
Dunn, D. D., 16, Parliament Street
Foyl, Rev. H. M., St. Paul's Rectory
Frankland, W., "Briar Dene," Acomb
Gatenby, P. H., 41, North Parade
Gill, Mrs. E. W., "Bootham Cottage," Bootham
Grant, Major W. F., R.A.M.C., Headquarters, Northern Command
Harding, G. W., 26, High Ousegate
Hill, Rev. W. N., Reighton
Hornby, H. L., 35, St. Mary's
Jesper, W. A., Haxby
Johnson, G. Y., 102, The Mount
Jones, C. M. Jenkin, "The Gables," Bootham
Lazenby, H., 177, Haxby Road
Leng, Mrs. M. L., 14, Union Terrace
Nicholson, Miss M. I., 36, Victor Street, Bishophill
Paterson-Wright, Mrs. L., 9, Baile Hill Terrace
Pearson, A. L., 79, Micklegate
Pearson, J., 19, Sycamore Terrace
Percy, Mrs. G. M., 10, Grosvenor Terrace
Potter-Kirby, G. A., 19, Nunthorpe Avenue
Priestley, J. B., 36, Bootham
Prince, H. H., 32, St. Olave's Road
Prince, J. H., St. Olave's Road
Robinson, J. R. F., M.A., H.M.I., 4, Clifton Terrace
Rodger, C. G., 39, Sycamore Terrace
Rumfitt, W. R., 17, St. Olave's Road
Sheppee, F., Queen Anne's Road
Spofforth, Mrs. E., 28, North Parade
Synge, Capt. W. A. S., Petergate House
Tennant, T., 21, Sycamore Terrace
Terry, N. G., St. George's Place
Thompson, W. Milner, 7, St. Peter's Grove
Tillott, Miss E., 15, Newton Terrace
Trendall, J. E., 18, Little Stonegate

Tuff, H., 11, North Parade
 Warner, R. E., 3, St. Sampson's Square
 Wilson, E., 3, North Parade
 Wilson, W. B., 26, High Petergate

DEATHS.

M E M B E R S .

Burleigh, Mrs. 69, The Mount
 Burrell, J., Ellison Terrace, Clifton
 Crombie, G., 80, Bootham
 Green, Ald. Norman, "Nunroyd," The Mount
 Monkhouse, Miss, 11, Bootham Terrace
 Smith, Dr. E. M., D.P.H., 27, Grosvenor Terrace
 Stoddart, A. R., "Ivy Cottage," Fishergate
 Thompson, Wm., "Newton House," Haxby Road

LADY SUBSCRIBERS.

Jepson, Miss F. C., 52, Bootham
 Simpson, Mrs. Bolton, 55, Bootham

RESIGNATIONS.

Members, 35.	Lady Subscribers, 6.	Associates, 5
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DEATH AND RESIGNATION.

Members	43
Lady Subscribers	8
Associates	5
	—
	56

NEW MEMBERS.

51

TOTAL MEMBERSHIP ON 31ST DECEMBER, 1924.

Members	481
Lady Subscribers	90
Associates	20
	—
	591

REPORT OF THE GARDEN COMMITTEE
FOR THE YEAR 1924.

Your Committee, in presenting their report for 1924, are pleased to note the sustained interest in the Gardens, and the desire of members to protect and conserve the same.

Following the policy inaugurated in 1923, a further series of flowering shrubs have been introduced and many of the old and decayed ones removed.

At no distant date the asphalting of many of the walks will require attention.

The loss of Mr. George Webster has robbed your Committee of an enthusiastic assistant. As superintendent of the Botanical Garden, his work was always admirably carried out, and his wide range of botanical knowledge will be missed by both members and visitors. The future management and general policy with regard to the Botanical Garden is at present under consideration.

Your Committee would again appeal to all members and their children not to throw waste paper, etc., about the grounds, but to use the waste paper baskets provided.

THE TREASURER IN ACCOUNT WITH THE YORKSHIRE

Last Year.	Dr.	INCOME.	£ s. d.	£ s. d.
	<i>Subscriptions:</i>			
	Members ... ... ... ... ...	... 924 12 0		
	County Members ... ... ... ... ...	... 3 1 0		
	Lady Subscribers ... ... ... ... ...	... 92 0 0		
	Associates ... ... ... ... ...	... 25 0 0		
	Ticket Holders (less Refunds) ... ... ...	... 3 0 0		
	Arrears ... ... ... ... ...	... 10 7 6		
	Subscriptions for 1925 paid in advance ...	... 21 0 0		
	Keys of Gates ... ... ... ... ...	... 114 12 6		
1180			1193 13 0	
	<i>Rents:</i>			
	St. Mary's Lodge ... ... ... ... ...	... 65 0 0		
	Shop, No. 10 Bootham ... ... ... ...	... 25 0 0		
	York Waterworks Co.—Shed ... ... ... ...	... 15 0 0		
	Do. Light ... ... ... ...	... 0 1 0		
	Corporation of York, Lease of Exhibition Land ...	... 2 0 0		
	Post Office—Wayleaves ... ... ... ...	... 1 2 0		
	York Diocesan Training College—Boat Yard ...	... 5 0 0		
	Rent of Palm Court, Museum Gardens ...	... 15 0 0		
	Shop, No. 12 & 14 Bootham ... ... ...	... 75 0 0		
130	Letting of Rooms for Lectures and Meetings ...	... 137 19 0		
387			341 2 0	
1527	The late Dr. Anderson's Bequest		2046 3 7	
	(For details of above, see p. 12)			
	Interest on £918 8s. 9d. India 3% Stock			
	(the late Mr. Rawdon's Bequest) ...	21 7 4		
19	Whitsuntide Admission Fees, less expenses ...	... ... ...	16 10 11	
8	Sale of Plans, Reports, and Catalogues, etc. ...	... ... ...	20 4 1	
	„ Old Material, etc. ... ... ...	... ... ...	8 6 10	
494	Gate Money ... ... ... ...	... ... ...	522 16 3	
	Grant from Corporation of York towards Meteorological Department		5 0 0	
	Bowling Green Members' Subscriptions ...	... ... ...	29 10 0	
	„ „ Locker Rents and Green Fees ...	... ... ...	3 2 0	
	Donation for holding of Pilgrimage ... ... ...	... ... ...	5 5 0	
			£4213 1 0	
	Balance in the hands of Treasurer 31st Dec., 1924	191 8 8		
		£191 8 8		

I have audited the Books of the above Society, and from the information and explanations furnished, am of the opinion that the Accounts are in order and correct.

January 21st, 1925.

FREDK. ABRAHAMS.

PHILOSOPHICAL SOCIETY FOR THE YEAR ENDING 31ST DEC., 1924.

Last Year.	EXPENDITURE.	Cr. £ s. d.	£ s. d.
	<i>Rent, Rates and Taxes:</i>		
	Crown Rent	1 0 0	
	Corporation Rent (less tax)	16 1 4	
	Property Tax and City Rates	93 9 2	
	Waterworks Company's Rates	10 5 5	
	Gardeners' Licenses	3 0 0	
119			123 15 11
	<i>Insurance:</i>		
	Fire Premiums	15 16 0	
	Employers' Liability Premium	6 11 8	
	Fidelity Guarantee Premium	1 10 0	
	National Health and Unemployment Insurance	20 0 0	
43			43 17 8
19	Telephone Rent and Calls		17 7 4
	<i>Salaries and Wages:</i>		
	Museums—	1584 11 0	
	Lodge and Gardens	637 2 9	
	Staff Pensions	202 0 0	
2467			2423 13 9
	<i>General Additions, Repairs, and Expenses:</i>		
	<i>MUSEUMS—</i>		
	Additions	101 7 1	
	Repairs, etc.	85 13 1	
	Alterations to Students' Room ...	33 18 6	
			220 18 8
	<i>GARDENS—</i>		
	General Expenses	73 3 0	
	Bowling Green	23 15 10	
			96 18 10
	<i>ESTATE—</i>		
	Repairs, etc.	128 6 6	
	New Fire Appliances	29 13 6	
			158 0 0
673			475 17 6
	<i>Gas, Coal, Coke, and Electricity:</i>		
	Coal and Coke	191 4 0	
	Gas	16 10 3	
	Electricity	31 15 7	
193			239 9 10
64	Library—Books and Binding		37 8 3
81	Lectures		59 11 6
	<i>Printing and Stationery:</i>		
52	Printing of Annual Reports	43 19 0	
43	General Printing and Stationery	34 16 9	
			78 15 9
17	Postages and Receipts		16 0 0
	Bank Interest		7 18 0
	Excess of Income over Expenditure		3523 15 6
			689 5 6
			689 5 6
			£4213 1 0
	Excess of Income over Expenditure, 1924 ...	689 5 6	
	Balance due to Treasurer, December 31st, 1923	497 16 10	
			£191 8 8

S. WALKER, Hon. Treasurer.

THE LATE DR. ANDERSON'S BEQUEST.

		£	s.	d.
Interest on £8,000 New Zealand 4 % Inscribed Stock	... ...	248	0	0
„ on £5,700 London & North Eastern Railway 4% First Preference Stock	... ...	176	14	0
„ on £2,500 London & North Eastern Railway 4 % Second Guaranteed Stock	... ...	77	10	0
„ on £8,000 Canada 4 % Stock	... ...	248	0	0
„ on £3,219 3s. 5d. Bank of England Stock	... ...	299	7	8
„ on £5,777 2s. 6d. South Indian Railway 4 % Registered Debenture Stock	... ...	179	1	8
„ on £3,368 8s. 0d. 5 % War Loan Stock	... ...	168	8	4
„ on £494 13s. 11d. 5 % War Loan Stock (half-year)	... ...	12	7	4
„ on £2,000 5 $\frac{3}{4}$ % Exchequer Bonds	... ...	89	2	6
2/3rd Share of Dividend on £1,000 invested in Girls' Public Day School Trust Ltd.	... ...	20	13	4
Rents of Shops and Dwelling-houses, Nos. 32 and 34 Bootham	... ...	63	15	0
Further Bequest, paid into Society's Account	... ...	463	3	9
		<hr/>		
		£2046	3	7

Memo : The above items are shown less tax, if deducted

THE TREASURER'S ACCOUNT IN CONNECTION WITH THE FUND FOUNDED BY THE LATE WM. REED, ESQ., FOR SPECIFIC PURPOSES.

Dr.	INCOME.	Cr.	EXPENDITURE.
		£ s. d.	£ s. d.
To Balance brought forward	3 12 6	New Books
Interest on York Corporation 3% Redeemable Stock, less tax	13 19 0	Excess of Income over Expenditure ...
Interest on £50 placed on Deposit with Midland Bank Ltd. 1 5 0			
		£18 16 6	
		—	—
BALANCE SHEET.			
		£ s. d.	£ s. d.
Amount of Fund on 31st December, 1924	65; 14 6	Amount invested in York Corporation 3% Redeemable Stock
			Amount placed on Deposit with the Midland Bank Ltd. ...
			Balance
		£655 14 6	—
		—	—

S. WALKER, Hon. Treasurer.

ANNUAL REVIEW EDITION,

FREDK. ABRAHAMIS.

January 21st, 1925.

13

THE YORKSHIRE MUSEUM,
YORK.

Report
of the
Museum Committee

FOR THE YEAR 1924.

PRINTED BY ORDER OF THE COUNCIL.

1925.



The Yorkshire Museum, YORK.

Keeper:

WALTER E. COLLINGE, D.Sc., M.Sc., F.S.A., F.L.S.,
M.B.O.U., HON. F.R.H.S.

Honorary Curators:

ARCHÆOLOGY - - - - { W. HARVEY BROOK.
G. BENSON, A.R.I.B.A.
W. A. EVELYN, M.A., M.D. (Cantab.)

ROMAN ANTIQUITIES - - Rev. A. RAINES, B.A.

BOTANY - - - - H. J. WILKINSON.

ZOOLOGY - - - - { W. H. ST. QUINTIN, F.Z.S.
S. WALKER, F.E.S.

ASTRONOMY AND { J. SCOTT.

METEOROLOGY - { Rev. W. JOHNSON, B.A., B.Sc.

NUMISMATICS - - - - { Rev. A. RAINES, B.A.
GEOFFREY THOMPSON, M.A.

CERAMICS - - - - A. HURST, A.K.C.

Sub-Curator: W. WATSON.

Assistants: { MISS E. HOLMES.
T. H. SPETCH.

Chief Clerk: ARTHUR COLLEY.

Museum Attendants:

WILLIAM RAFTON and MISS BINGE.

THE YORKSHIRE MUSEUM.

REPORT OF THE MUSEUM COMMITTEE FOR THE YEAR 1924.

THE Committee in presenting their Report for 1924, are able to record a continued improvement in the various collections. The collection of mediæval pottery has now been removed from the Hospitium and installed in the Museum.

Alterations have been carried out beneath the east end of the Tempest Anderson Hall (the old student's room), and provision has now been made for a sub-curator's room, and a large work-room. This much desired alteration has made it possible to provide additional shelf-room for serial publications and reports, and accommodation for stores of various kinds. The printing press has been overhauled and is now in working order.

Other structural alterations include the re-lighting of the lower part of the Central Hall, and additional cases for the mediæval pottery.

Chief amongst the additions are the Charles Rooke collection of Roman and mediæval antiquities, mostly from York, Yorkshire Fossils, etc.; the skeleton of the racehorse 'Tracery' presented by W. Allinson, Esq. A collection of mediæval pottery from the kiln discovered at Cheam, presented by Charles J. Marshall, Esq., F.R.I.B.A.

The Ethnological room containing the mediæval antiquities and the Stone and Bronze Age collections has been reorganized, and numerous additions made thereto. Space has

been found for part of the Henry Seaton Harland collection, and the collection of Mortars and Cauldrons which have hitherto been stored in the Hospitium. Given the requisite space, many very fine collections might be shown.

The Tempest Anderson Hall and adjoining rooms were, as usual, frequently utilized during the year for various Congresses and other meetings having objects akin to those of the Society.

On January 22nd, the members of the York Chamber of Trade met in the Hall, when Dr. Collinge lectured on "The Relations of Museums to Commerce."

The British Commercial Gas Association held their District Conference in the hall on March 27th. On April 12th, the members of the Selby Scientific Society paid a visit to the Museum, as also did the members of the Sub-Postmaster's Conference, the Independent Labour Party on April 21st, and the Yorkshire Fire Brigade Friendly Societies on May 3rd.

On June 10th, the Catholic Pilgrimage visited the ruins of St. Mary's Abbey.

The Colonial visitors have been numerous. On June 14th we were favoured with a visit of a party of members of the Young Australia League; on July 14th, the Canadian Undergraduates; on July 21st, the Canadian Editors and the International Advertising Convention, and the Cathedral Party of Colonial visitors on July 22nd.

The Yorkshire Numismatic Society held its July meeting in the Museum Library on July 19th.

The Yorkshire Architectural and York Archaeological Society continues to hold its meetings and house its Library in the Museum.

EDUCATIONAL WORK.—The scheme of instruction in the Museum of classes for boys and girls by qualified teachers from the Elementary and Secondary Schools of the city, has been in operation during the year and has proved of great interest and distinctly successful. Upwards of 500 scholars have received instruction in the Museums. From the York School of Art 250 pupils have been admitted free. Numerous visits from the Secondary Schools have been made both from

York and other Yorkshire towns, and in so far as possible the Keeper has addressed the visitors, explaining the wealth of exhibits open to them.

The collections or specimens have been studied by Mr. Angelo Hayter, M.A., F.S.A., London; Mr. A. L. Armstrong, F.S.A., Sheffield; Major Gordon Home, F.S.A., Scot., London; and Professor Nils Åberg, of the University of Upsala.

Specimens have been loaned to different specialists, and the number of inquiries relating to the various collections continues to grow.

Turning to the different sections of the Museum :—

ARCHÆOLOGY.—The projected work of cleaning, arranging, and setting up the large mass of objects acquired of mediæval antiquities during the last few years, and which date from the abbey excavations of 1912, has made little progress. Great interest in the antiquities has been taken by visitors from the United States of America and the British Dominions. The pedestal upon which the great mortar of the Infirmary of St. Mary's Abbey is placed, and which was the gift of the Rev. Charles Wellbeloved, has been renovated and made strong enough to carry the weight. In addition it has been put upon, and braced to, a small oak platform. It stands in the vestibule of the Architectural Museum amidst suitable surroundings, a temporary railing protects it from being handled by thoughtless persons.

The Committee of the Blind School has upon the request of the Honorary Curator, and with the advice of their architect, W. H. Brierley, Esq., F.R.I.B.A., F.S.A., given some details of interest taken from the Abbey Church of St. Mary and found during the present work of reconstruction and restoration in the building of the ancient Abbot's lodgings (the King's Manor) and it is hoped to obtain some interesting fragments from the cloister arcade and the piers of the tower of the Abbey.

GEOLOGY.—The collections from the Kirkdale Cave have all been cleaned, re-labelled, and re-arranged, and a commencement has been made with the re-labelling of the palæontological collections.

ROMAN ANTIQUITIES.—Nothing of outstanding interest has been added to the Roman collection during the last year. Some nice vessels and pieces of Samian, originally found in Trinity Gardens, have been acquired from the Rooke Museum at Scarborough. The Honorary Curator is steadily amassing material for a new catalogue of our Roman collections, but he would desire once more to impress upon the Council that such a catalogue will be useless until space exists in which to adequately arrange and display the unique Roman antiquities. It is not too much to say that our knowledge of Roman Britain has been revolutionized during the last 25 years, and that the value of your collection for educational purposes would be largely increased if it could be better displayed.

BOTANY.—The Honorary Curator is sorry to record the death of Mr. George Webster who has done so much valuable work in the Herbarium and Botanical Garden.

The collections of British flowering plants are in good order. The collection of Foreign plants requires attention.

ZOOLOGY.—All the collections have been overhauled during the year and are in good order. The removal of a number of old mammals has permitted of the better arrangement and exhibition of the general Bird collection and the Allis collection of birds' skeletons. These have long been unduly crowded, and many out of reach for proper inspection. The Hey and the North collections of Land and Freshwater Shells have all been placed in glass-topped boxes, and a commencement has been made with the labelling. The whole of the Backhouse collection of bird skins has been gone through, as also the various collections of skins of Mammals.

Entomology.—A few additions have been made to the cabinet of Butterflies and Moths which is open to visitors in the Vertebrate Gallery.

The insects in the Museum are generally in a fair condition. The Allis collection of British Lepidoptera which contains a number of "type" specimens has been of service to many students (American and others) during the past year, which attests its value and importance.

ASTRONOMY.—All the instruments are in good condition and adjustment. Numerous observations have been taken including the occultation of A Taurus by the Moon. Mars has frequently been observed, though having a south declination is not favourably situated for observation at York. The Observatory is open to members by arrangement.

NUMISMATICS.—The collection has been overhauled and is in good condition.

CERAMICS.—The Ceramic collection in the gallery and hall, together with the collections of glass and delft ware, have been kept in good order during the past year. The whole of the collections have been cleaned, many additional pieces labelled; and the Society's collection of green glazed and early mediæval ware has been removed from the Hospitium into the Central Hall where they have been temporarily arranged in the new cases provided for them, and are now being numbered previous to cataloguing. This work has somewhat broken into the progress of the other catalogues, but was necessary in order to admit of proper arrangement. There has also been received during the year a number of pieces of green glazed and unglazed pottery and tiles from the Rooke collection, which are being sorted out and will be exhibited in the Central Hall, although some of the tiles on delft will probably find a place in the gallery. Temporarily this latter collection is rather forcing some of the green glazed and other specimens out of position, but this will be remedied as early as possible. In conclusion it should be recorded that several interesting fragments of green glazed pottery have been found in York, chiefly in the alteration to the School for the Blind, but it has not been possible to deal with these up to the present, owing to the above mentioned work.

THE LIBRARY.—With the additional shelf room provided in the work-room, it has been possible to put into order the Transactions and Proceedings of the various Philosophical and Natural History Societies, and also to transfer thereto some of the less used periodicals.

During the year 49 volumes have been added by purchase and 62 by presentation, in addition to a large series of unbound memoirs. The number of volumes borrowed was 213.

METEOROLOGY.—Statistics of Station: Longitude, $1^{\circ} 5'$ N.; Latitude, $53^{\circ} 57'$ N.; height above mean sea level, 56 feet.

The rainfall for 1924 was below normal, being only 23.04 inches, 1.27 inches below the average for over 50 years. The rain was fairly spread over the year, no month reaching 3 inches, 12.93 inches falling in the second half-year.

Temperature ranged from 84° F. on July 12th to 16° F. on March 3rd; the range of temperature for 1924 being thus 68° F. as against 64° F. for 1923. A mean pressure of 1012.0 millibars (1000 millibars = 29.531 inches of mercury) at M.S.L., (corrected for diurnal variations), has been recorded, as against 1011.2 millibars for 1923. August gave the lowest mean for the year, 1008.0 millibars, September next with 1008.1 millibars. November was highest with 1017.1 millibars, and February next with 1017.0 millibars. The extreme range was 1.62 inches as compared with 1.84 inches in 1923. The highest reading of the barometer was taken on February 16th at 9 a.m., viz.: 30.63 inches, and the lowest on November 27th, at 9 a.m., viz.: 29.01 inches.

Snow or Rain fell to the amount of 23.04 inches or 585.4 mm., as against 25.20 inches or 604.1 mm., for 1923, a decrease of 2.16 inches or 74.7 mm., for the year. As last year, the second half of the year was the wetter, the holidays of June meeting with better weather. The heaviest fall of the year occurred on May 31st, when 24 mm. (0.90 inches) fell. The cumulative totals for the years since 1820 are, for the heaviest monthly falls, August 5685.23 mms., October 5506.37 mms. and July 5247.19 mms. Again the unfavourable weather made the ingathering of crops difficult, and the lack of sunshine retarded the ripening of fruits to such an extent that many fruits were not gathered until November.

Observations of Winds show that during 1924 we had "strong" winds on 2 days (force 4 to 7 on scale 0-12) as compared with 5 in 1923, and "calm" on 3 days as compared

with 2 in 1923. The chief winds have been observed as S. (119), W. (65), N. (50), S.E. (32), S.W. (32), and N.W. (26).

Thunder was heard on 9 days; snow or sleet fell on 15 days, as against 21 in 1923; and there were hailstorms on 3 days, as against 4 days the previous year.

Bright Sunshine was recorded for 1156·0 hours as against 1239·9 hours in 1923, a decrease of 83·9 hours for the year.

The daily mean was 3·16 hours, and the percentage of possible sunshine only 26 as compared with 28 for 1923.

It is urgently requested that any discovery of Archæological interest in the neighbourhood may be brought to the notice of the Keeper of the Museum, or the Honorary Curators, as early as possible.

The Keeper of the Museum will be pleased to give any information in his power, and may be seen daily, Museum engagements permitting.

CLIMATOLOGICAL STATION—THE YORKSHIRE MUSEUM, YORK.

Heights above Ground :—Barometer, 3 feet; Thermometers, 4 feet; Rain-gauge, 1 foot. 4 in.

1924.	Air Temperature in Degrees Fahrenheit.												Weather, No. of Days of.												Bright Sunshine.			
	Absolute Extremes.						Rainfall.						Wind.						Precipitation.						Total.		Per Cent.	
	Max.	Means of Min.	Min. & Max. Combined.	H. Max.	L. Min.	Day.	Max.	Day.	H. Min.	Day.	At 1 ft.	At 4 ft.	° F	mm.	Max.	Total.	Max.	Fall.	Day.	hrs.	hrs.	%	hrs.	hrs.	Total.	Per Cent.		
Jan.	43.6	35.3	39.5	50	1, 29	24	10	33	4	44	22	37.6	40.4	48.8	4	1.92	22	15	9	3	0	0	1	1.03	32.1	13		
Feb.	43.6	34.7	39.1	54	4	25	27	36	14, 28	45	5	39.0	41.0	23.1	15	0.91	24	14	10	7	1	1	0	0	0.96	56.9	20	
Mar.	46.0	31.0	38.5	56	15	16	3	3.5	2	43	23	37.4	39.8	27.2	16	1.67	23	8	5	1	6	0	0	0	4.14	128.2	35	
April	52.2	36.6	44.4	64	20, 21	28	10	43	3, 12	49	26	42.9	42.1	46.5	5	1.83	13	14	12	2	0	1	2	0	4.44	133.1	32	
May	59.6	46.2	52.9	71	29	37	5	45	4	53	31	50.1	46.6	75.2	24	2.96	9.4	31	21	17	0	0	0	2	0	3.51	108.7	22
June	64.9	50.3	57.6	75	26	38	3	50	1	57	26	56.8	52.2	36.1	17	1.42	5.2	1	16	10	0	0	0	1	0	4.55	136.4	27
July	68.2	52.9	60.5	84	12	46	1	58	28	59	11	59.3	55.6	59.2	5	2.33	6.7	28	15	12	0	0	0	1	0	5.53	171.3	34
Aug.	65.0	50.9	57.9	75	11	43	28	59	20	59	5	58.8	56.7	59.4	5	2.34	4.4	17	21	13	0	0	1	3	0	4.02	124.7	27
Sept.	62.8	50.8	56.8	71	17	37	28	56	22	58	1	56.5	55.8	51.6	11	2.03	4.9	25	19	12	0	0	0	0	0	4.09	122.8	32
Oct.	56.0	45.0	50.5	68	14	34	24	47	25	53	10	51.5	53.1	64.3	4	2.53	3.6	29	16	12	0	0	0	1	1	2.80	86.7	27
Nov.	49.3	40.0	44.7	57	23	31	4	41	17	50	23	46.4	49.3	47.5	6	1.87	4.3	1	20	10	0	0	0	2	2	1.41	42.4	17
Dec.	48.1	40.0	44.1	55	18	34	12	41	31	4.5	5, 19	44.2	46.7	46.5	11	1.83	4.5	4	18	12	2	0	0	3	0.41	12.7	6	
Total												Mean.												May.		26		
Means or Extremes												May.												3.16		26		
Extremes												May.												115.60		115.60		

Latitude $53^{\circ} 57' N.$, Longitude $1^{\circ} 5' W.$. Gravity Correction + 0.8 mb. Height above Mean Sea Level 56 ft.

1924.	Station Level	Mean Pressure and Lat. 45° corrected to 32° F.		Temperature						Humidity.						Wind, No. of Observations referred to a total of 93, 90, 87 or 84 for the month.		
		M.S.L. and corrected for diurnal variation.	Mean.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	Vapour Pressure.	Percentage.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
		mb.	ins.	°	°	°	°	mb.	%	Cal.	Cal.	Cal.	Cal.	Cal.	Cal.	Cal.		
Jan.	1013.0	30.037	38.2	39.2	1.3	1.5	6.9	7.1	89	88	7.6	6.3	0	0	0	0		
Feb.	1017.0	29.535	38.3	38.2	2.1	2.1	6.4	6.4	83	83	7.2	6.9	0	3	4	13		
Mar.	1011.8	30.033	36.6	36.9	2.3	2.1	5.9	6.1	81	83	6.3	3.2	0	0	0	7		
April	1010.8	29.764	45.1	43.1	3.7	3.0	7.4	7.3	7.3	7.8	7.1	5.5	0	0	0	2		
May	1010.1	29.878	52.5	51.4	3.5	2.9	10.3	10.4	7.7	81	8.5	7.9	0	0	0	4		
June	1014.7	30.178	57.8	56.8	4.2	3.5	12.2	12.3	7.6	7.8	7.3	6.6	0	0	0	5		
July	1010.6	29.819	60.5	59.4	4.8	3.5	12.9	13.5	7.3	7.9	7.2	6.9	0	0	0	1		
Aug.	1008.0	29.846	57.9	57.3	3.4	2.9	13.0	13.1	7.9	81	7.4	6.5	0	0	1	12		
Sept.	1008.1	29.739	56.3	54.8	3.0	3.0	12.5	11.8	81	81	7.1	6.1	0	0	0	7		
Oct.	1012.0	29.691	49.6	49.0	2.1	1.8	10.3	10.3	87	87	6.2	7.2	0	2	0	10		
Nov.	1017.1	29.708	43.9	44.7	1.7	1.4	8.4	8.9	87	89	7.6	6.2	0	6	0	0		
Dec.	1010.3	29.904	43.7	43.7	1.4	1.5	8.6	8.5	88	88	8.5	5.8	0	4	1	0		
Totals			29.860	48.4	2.8	2.4	9.6	81	83	7.3	6.3	0	19	0	2	3	26	
Means																		

Pressure is expressed in millibars (1000 millibars = 29.531 mercury inches), also in mercury inches.

RIVER HEIGHT RECORDS REGISTERED BY THE AUTOMATIC RECORDER
AT THE GUILDHALL, YORK, 1924.

Date	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	Above or below S.L.	ft. in.	Above or below S.L.	ft. in.	Above or below S.L.	ft. in.	Above or below S.L.	ft. in.	Above or below S.L.	ft. in.	Above or below S.L.	ft. in.
1	12 p.m.	above 9	7	noon	above 1	9	6 a.m.	above 1	2	12 p.m.	above 9	1
2	11 a.m.	9	11	"	1	9	1 a.m.	1	2	8 p.m.	11	3
3	1 a.m.	9	0	1 a.m.	1	9	12 p.m.	0	10	1 a.m.	11	2
4	"	5	0	noon	1	8	"	0	10	"	8	8
5	"	2	3	"	1	5	"	1	11	"	8	0
6	"	1	7	"	1	4	"	0	11	"	5	0
7	noon	1	9	"	1	3	"	0	11	1 a.m.	3	10
8	1 a.m.	8	9	"	1	2	"	0	10	0	3	6
9	"	1	8	"	1	2	"	0	11	7 a.m.	5	2
10	"	1	5	"	1	2	"	0	10	1 a.m.	4	5
11	12 p.m.	1	4	12 p.m.	1	4	12 p.m.	0	7	"	3	0
12	12 p.m.	5	9	noon	1	4	"	1	6	6 p.m.	3	11
13	"	8	5	"	1	4	"	1	10	1 a.m.	3	2
14	6 a.m.	8	8	"	1	4	noon	1	10	12 p.m.	2	2
15	1 a.m.	7	2	"	1	5	"	0	9	1 a.m.	3	2
16	"	3	6	"	1	4	"	1	9	1 p.m.	3	1
17	6 a.m.	2	4	"	1	3	noon	1	5	2 a.m.	2	6
18	1 a.m.	1	10	1 a.m.	1	3	"	0	10	"	1	10
19	12 p.m.	5	3	noon	1	2	"	0	9	12 p.m.	3	9
20	1 a.m.	5	3	"	1	3	"	0	8	2 a.m.	4	8
21	"	4	5	"	1	3	"	0	8	12 p.m.	4	5
22	12 p.m.	3	1	"	1	3	"	0	5	5 a.m.	4	5
23	"	7	11	"	1	3	12 p.m.	1	2	1 a.m.	0	6
24	1 a.m.	7	11	"	1	3	"	0	6	1 a.m.	0	6
25	"	5	6	"	1	2	"	6	12 p.m.	2	2	1
26	"	4	3	"	1	2	"	0	6	9 p.m.	3	9
27	6 p.m.	2	9	"	1	2	"	1	10	1 a.m.	3	8
28	1 a.m.	2	8	"	1	2	"	1	11	6 p.m.	2	8
29	"	6	2	"	1	2	"	1	6	1 a.m.	2	6
30	noon	1	11	"	1	2	"	0	7	6 p.m.	1	4
31	"	1	9	"	1	2	"	"	"	"	"	1

Recorder
out of
order.

RIVER HEIGHT RECORDS.

Date.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.			
	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.	Time.	Above or below S.L.		
1	9 a.m.	above 1	3	1 a.m.	above 1	11	noon	1	12 p.m.	above 1	8	12 p.m.	above 2	
2	1 a.m.	1	1	12 p.m.	2	11	12 p.m.	1	1 a.m.	1	9	6	10	
3	12 p.m.	1	2	7 a.m.	3	4	1 a.m.	0	0	1	5	4	3	
4	5 p.m.	2	6	1 a.m.	1	9	noon	0	10	1	3	10	9	
5	1 a.m.	5	3	9 a.m.	1	3	"	0	9	12 p.m.	1	12 p.m.	8	
6	12 p.m.	6	0	"	1	0	"	0	8	12 p.m.	1	12 p.m.	9	
7	6 a.m.	6	2	12 p.m.	2	3	"	0	8	12 p.m.	1	12 p.m.	8	
8	3 p.m.	7	10	12 p.m.	1	0	12 p.m.	1	0	5	10	8	2	
9	1 a.m.	8	2	noon	1	0	6 a.m.	1	9	3	9	2	0	
10	"	9	1	1 a.m.	1	0	12 p.m.	1	11	2	3	2	10	
11	noon	10	1	noon	0	9	12 p.m.	1	11	4	10	2	6	
12	"	11	1	4 p.m.	0	11	1 a.m.	1	11	12 p.m.	1	11	6	
13	"	10	0	noon	0	9	12 p.m.	1	6	1 a.m.	4	2	2	
14	"	9	0	"	0	9	"	1	9	1 a.m.	1	9	9	
15	"	8	0	1 a.m.	0	9	6 p.m.	2	0	9 p.m.	1	9	8	
16	6 a.m.	6	0	12 p.m.	0	8	12 p.m.	1	a.m.	1	6	7	10	
17	12 p.m.	12	0	noon	0	8	11 p.m.	4	10	1 a.m.	1	5	10	
18	noon	18	0	8	12 p.m.	1	5	1 a.m.	4	10	1 a.m.	1	2	9
19	"	17	0	8	3 a.m.	1	6	12 p.m.	2	7	12 p.m.	1	3	12 p.m.
20	"	16	0	8	1 a.m.	1	8	"	2	9	1 a.m.	2	2	10
21	1 a.m.	21	0	7	12 p.m.	1	7	"	5	3	1 a.m.	1	3	12 p.m.
22	12 p.m.	22	1	9 a.m.	2	8	6 a.m.	5	9	12 p.m.	4	8	7	
23	noon	23	1	5	1 a.m.	1	9	1 a.m.	3	6	12 p.m.	1	8	12 p.m.
24	1 a.m.	24	1	5	5 a.m.	1	7	9 a.m.	2	10	noon	2	9	1 a.m.
25	12 p.m.	25	1	6	1 a.m.	1	7	9 a.m.	3	10	1 a.m.	1	6	5
26	1 a.m.	26	1	6	noon	1	6	12 p.m.	3	4	noon	2	6	3
27	12 p.m.	27	below 0	9	"	1	3	5 a.m.	3	6	11 p.m.	5	5	12 p.m.
28	above 1	28	0	"	1	3	1 a.m.	2	3	1 a.m.	5	5	9	
29	"	29	4	12 p.m.	2	3	"	1	8	11 p.m.	5	5	4	
30	1 a.m.	30	4	6 a.m.	2	5	12 p.m.	1	6	12 p.m.	2	10	4	
31	"	31	11	1 a.m.	1	9	3 p.m.	1	9	6 a.m.	8	8	10	

YORKSHIRE MUSEUM 1924.

RAINFALL IN 1924.

AT CHERRY HILL, YORK.

Rain Gauge : Dia. of funnel, 5 in.;
Height Above Ground, 1 ft. 6 in.,
Above Sea Level, about 50 ft.
,"

Month.	Per-			Highest.	Date.	Lowest.	Date.	Absolute.	inches.	inches.	Total Depth.	Greatest Fall in 24 hours.	Number of Days with .01 in. or more.	Number of Days with .04 in. or more.		
	Daily Mean.	1924	1923													
Jan.	1.03	1.3	2.2	30.48	{ 25th, 9 p.m. 26th, 9 a.m. 27th, 9 p.m. 16th, 9 a.m.	29.25	10th, 9 a.m.			.80	2.65		22	17	11	
Feb.	1.96	2.0	9	30.63		29.06	9th, 9 p.m.			.13	.86		11	13	9	
Mar.	4.14	3.5	27	30.44	7th, 9 a.m.	29.03	1st, 9 a.m.			.94	1.20		22, 23	7	6	
Apr.	4.44	3.2	32	30.47	{ 19th, 9 p.m. 20th, 9 a.m.	29.18	27th, 9 p.m.			.60	1.90		12, 13	14	13	
May	3.51	2.2	30	30.26	17th, 9 a.m.	29.40	25th, 9 a.m.			.94	3.39		31	21	18	
June	4.55	2.7	25	30.30	14th, 9 a.m.	29.43	11th, 9 p.m.			.61	1.67		1	16	14	
July	5.53	3.4	32	30.26	14th, 9 a.m.	29.06	3rd, 9 p.m.			.77	2.49		28	12	12	
Aug.	4.02	2.7	34	30.41	8th, 9 p.m.	29.16	17th, 9 p.m.			.76	2.47		16, 17	17	15	
Sept.	4.09	3.2	35	30.31	3rd, 9 a.m.	29.27	20th, 9 p.m.			.50	2.10		25	18	13	
Oct.	2.80	2.7	29	30.48	14th, 9 a.m.	29.27	30th, 9 p.m.			.40	2.61		29	16	12	
Nov.	1.41	1.7	25	30.58	16th, 9 p.m.	29.01	27th, 9 a.m.			.66	1.92		1, 2	18	12	
Dec.	0.41	6	18	30.44	20th, 9 p.m.	29.02	27th, 9 p.m.			.57	1.69		4	14	11	
Year.	3.16	2.6	28	30.63	Feb. 16th, 9 a.m.	29.01	Nov. 27th, 9 a.m.					Total	24.95		18;	146

ADDITIONS TO THE MUSEUM

DURING 1924.

G. S. ABBOT (Saxone Shoe Co.).—Lead head of rain fallpipe, dated 1758, from 46 Coney Street, York.

Capt. A. ANDERSON.—Two models of Egyptian Torch Holders.

Major FAIRFAX BLAKEBOROUGH.—Clockmaker's Tool Bag and Tools, c. 1775-90.

W. A. COOPER.—Two Bronze Coins.

W. C. COPPERTHWAITE.—Eight pieces of Roman Pottery; Handle of Vase; fragments of Samian ware; three Mediæval pieces; one green glazed Jug from site of N.E.R. Station; fragments of Cinerary Urn, bones, etc.

Major-General J. C. DALTON.—Two Note Books of the late Rev. James Dalton.

G. H. GOLLEDGE.—Supposed Meteorite found February 2nd, 1924, at Fulford.

EDWIN GRAY.—Framed Letter from Frank Lockwood, Q.C.

The Misses HAMMOND.—Old Work-box; Pin-box; Battersea Enamelled Patch-box; Silk Tape Measure in case.

The Rev. C. F. HARDY.—Mediæval Pottery.

Vice-Admiral the Hon. S. HAWKE.—Collection of Rock specimens and fossils from Chili, etc.; builder's ancient Plumb-stone.

Mrs. C. E. HULATT.—A "Sheen," a brass instrument used for splitting straws in the straw-plaiting industry at Campton, Beds., 1884.

A. HURST.—Stave of S. Cuthbert's Parish, York, 1830; brass Racecourse Badge of Sir James Lowther.

A. W. LINFOOT.—Old Sickle found at Acomb; specimen of *Apteryx*; iron bracket, possibly for collecting Peter's pence; iron Holy Water Vessel; Horn Spoon.

W. LUND.—Old MS. on History of Yorkshire; 3 Old Deeds; 2 Minute Books of York Guild of Cordwainers, 1656—1752; Member's Certificate and 4 Account Books belonging to a member of the Guild; Account Book of Dunnington Relief of the Poor Officers, 1816-30; "York Courant," 1811-16.

C. J. MARSHALL.—15 Fragments of Pottery from Mediæval kiln at Cheam.

J. H. MORTON.—Print of Font of S. Lawrence's, York; Todd's Map of York, 1829.

J. B. OLDHAM.—Crimea memorial pot Tankard; 1 green glazed Jug; 1 black or brown glazed vessel; 3 small brown pot Bottles found during excavations near Micklegate Bar, York; single barrel Poacher's Gun, by Bailes, London; double barrel Muzzle Loader by Manton; double barrel Muzzle Loader by S. and C. Smith, London; single barrel Muzzle Loader by Bowstead, London.

R. PEXTON.—Mediæval Tile from Watton Priory; 17 Mediæval Tiles and fragments; fragments of green glazed Pottery from Watton Priory.

RAIMES & Co.—Old Bullet Mould.

W. RAFTON.—Old Pincushion and Holder.

Rev. W. ROBINSON.—XVth Century Sword and remains of Dagger dug up in Burythorpe Church Yard.

The CHARLES ROOKE Collection of Roman and Mediæval Antiquities and Yorkshire Fossils, etc.

Colonel PHILIP SALTMARSHE.—A collection of Egyptian Antiquities on behalf of the late G. R. Denison, Esq.

The late Mrs. BREWIN SHUTTLEWOOD.—Mediæval Jar.

ARTHUR SMITH.—Fragments of Tobacco Pipes, found during excavations near Monk Bar, York. Supposed to be the site of a pipe manufactory.

The late Dr. EDMUND SMITH.—1 Microscopic Turn-table; 1 Live Cell; Series of Slides.

NURSE SMITH.—Stuffed specimen of Brown Owl; Knitted Purse, c. 1836; Old Silk Shawl, c. 1830; Sampler Purse with old French gilt frame; Wooden Pincushion and holder; Linen Crimper; Cap, for which Puffing Irons were used.

SYDNEY H. SMITH.—Old Rifle; Handcuff, dug up in Clifford's Tower, 1905; Skull and Carapace of Turtle.

W. H. ST. QUINTIN.—Wasps' Nest.

ALFRED TAYLOR.—Mediæval Jug, found at Bishophill, 12 feet below the surface.

S. WALKER.—Two Prints of York Churches; Old Wine Bottle.

Colonel W. A. WHITE.—Old Wine Tester.

W. H. YOUNG.—25 Specimens of Fossil Corals, etc.

DONATIONS TO GARDENS.

Capt. A. ANDERSON.—15 Cacti.

A. HURST.—2 *Thalictrum dipterocarpum*; 50 bulbs of *Prischkinia*; large quantity of Iris plants.

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JOHN PHILLIPS,

KEEPER OF THE YORKSHIRE MUSEUM, YORK, 1825—1840.

From a Painting by William Smith, of Oxford, in the Yorkshire Museum, York.

JOHN PHILLIPS,

THE FIRST KEEPER OF THE YORKSHIRE MUSEUM, YORK.

By WALTER E. COLLINGE, D.Sc., M.Sc., F.S.A., F.L.S.

THE centenary of the appointment of John Phillips as the first Keeper of the Yorkshire Museum, seems a fitting occasion to offer to the present generation some account of a man, to whom all lovers of Yorkshire are so deeply indebted.

For a period of about sixteen years as Keeper of the Yorkshire Museum and Secretary of the Yorkshire Philosophical Society, he exercised a profound and far-reaching influence on the work and development of both organizations, and as the chief executive officer he directed their activities in such a manner that the results of his labours are still felt and apparent amongst us to-day.

In Phillips' day, Museums were few, and, with an exception here and there, consisted of a curious assortment of odds and ends from all parts of the world. It was a time when, throughout the country there was an awakening, and signs of a greater appreciation of science and scientific ideas, and whilst many of the views and ideas of John Phillips on museum administration and organization have been greatly improved upon, others stand fast as principles of cardinal importance. Of these we may mention (1) his strong advocacy of the County Museum having a definite scope and aim, viz.: the bringing together of representative collections illustrating the geology, palæontology, antiquities, and the fauna and flora of the county; (2) the delivery of courses of lectures illustrated by the actual museum specimens, and (3) the utilisation (under proper conditions and control) of these collections by specialists in different departments of science.

The following is a brief resumé of Phillips' life, obtained from various sources, chiefly an article in the *Geological Magazine*, July, 1870; an article contributed to the *Athenæum*, May 2nd, 1874, by Phillips; some notes kindly lent me by J. S. Gayner, Esq.; Kendall and Wroot's Geology of Yorkshire, and the minute books and other records of the Yorkshire Philosophical Society.

He was born on December 25th, 1800, at Marden, in Wiltshire. His father was the youngest son of a Welsh family, and was trained for the Church, but for some reason he later came to England, and was appointed as an officer in the excise. He married the sister of William Smith, of Churchill, Oxfordshire, who has very deservedly been designated "the Father of English Geology." Educated at first by his father, John Phillips was but seven years old when this parent died, and he lost his mother soon after. From this time onward he was under the friendly charge of his uncle William Smith (commonly known as "Strata" Smith). The fondness with which Phillips ever dwelt upon his memory is most striking.

Before reaching his tenth year, Phillips had passed through four schools, after which he entered a school at Holt Spa, in Wiltshire. He was an ardent lover of outdoor sports, and an assiduous pupil, taking the greatest interest in Latin, French, and Mathematics. Whilst here he became possessed of a small microscope which was the means of directing his attention to the study of natural history, and led him later in life to making "lenses, telescopes, thermometers, and every kind of instrument wanted in my researches."

He remained at Holt Spa for five years and then passed to the home of a friend, the Rev. Benjamin Richardson, of Farley Castle, near Bath, whom Phillips describes as "one of the best naturalists in the West of England, a man of excellent education, and a certain generosity of mind very rare and very precious."

From Farley he was transferred to his uncle's house, "which looked out on the Thames, from the eastern end of Buckingham Street." "Here," writes Phillips, "a kind of life awaited me which remembered at this long distance of time excites sometime my wonder, at other times my amusement,

not seldom regret, but always my thankfulness." William Smith practised as a civil engineer and had a large and lucrative practice, but every spare moment and every spare shilling he devoted to his great work—the map of the strata of England and Wales, which was published in 1815.

Soon after the publication of the great map, Phillips informs us that William Smith "in his happy dream of the further expansion of Geology, his actual professional work was often forgotten, until at length he had thrown into the gulf of the strata all his little patrimony and all his little gains; and he gave up his London residence and wandered at his own sweet will, and I with him, among those rocks which had been so fatal to his prosperity, though so favourable to his renown."

"We were never separated," continues Phillips, "in act or thought. In every drawing or calculation which his profession required, in every survey, I had my share of work. And thus my mind was moulded on his. And it seemed to be my destiny to mix as he had done, the activity of a professional life with the interminable studies of Geology." Thus nearly five years were spent.

In the spring of 1824, William Smith was invited by the then newly-formed Yorkshire Philosophical Society to deliver a course of lectures. Both he and Phillips came to York, and the latter was entrusted with the task of arranging the geological collection, for which services, according to the Annual Report for 1823, he received the sum of £20.

The first mention I find of Phillips in the Society's records is his election in 1823 as an Honorary Member, next as assistant to his uncle, and in the Annual Report for 1825 we find mention on p. 7—Keeper of the Museum and Draughtsman, John Phillips.

In the Council's minutes dated October 11th, 1825, we read "Resolved that it is expedient to appoint a Keeper of the Museum with a salary. That Mr. John Phillips be appointed Keeper of the Museum and Draughtsman to the Society from the first of January next."

Although Phillips did not officially take up his position as Keeper until January 1st, 1826, it is evident from the above extract from the Annual Report of 1825 that he was acting as

such, and in the same Report on p. 6, we read—"There has been no measure yet adopted in the administration of the Society's affairs, which is of greater importance to the scientific character of the Institution, than the appointment of a Keeper of the Museum."

Soon after the new museum buildings were opened, viz.: in 1829, the Society found themselves with a debt of £1,500, and the Council stated "it is deeply embarrassed; and the effect of that embarrassment upon it at the present is this: that it is compelled to be parsimonious in points where liberality would not only be honourable to its character, but important to its success." (Report for 1829, p. 14). Phillips was now called in as one of the Secretaries and until the end of his keepership remained so. There can be little doubt but that his clear sighted and cautious judgment did much to save the Society from its then threatened destruction.

In 1826 Phillips read his first paper before the Society "On the Direction of the Diluvial Currents in Yorkshire," which was published in the *Philosophical Magazine* in 1827.

In 1829 he rebuilt and fitted up the gatehouse of the monastery, which he occupied until 1853.

In 1829 he commenced the publication of his *Illustrations of the Geology of Yorkshire*, "a work which," to quote Professor Kendall, "has been to all subsequent workers both an inspiration and a guide."

In his own words, he was one of the band who in 1830 stood anxious but hopeful by the cradle of the British Association, and to him is due the success of the York Meeting held in 1831. He was Secretary in 1832, Assistant Secretary and Editor of the Proceedings from 1833-1862, Joint Secretary in 1863, when he was succeeded by Charles Darwin's illustrious cousin, Francis Galton, the founder of the science of Eugenics.

In 1834 Phillips was elected a Fellow of the Royal Society, and in the same year the Chair of Geology in King's College, London, was offered to and accepted by him. This appointment he held for six years, leaving York annually to deliver one course of lectures there.

Working for the Geological Survey, his "Report on the Geology of Cornwall, Devon, and West Somerset" appeared in 1839.

No one realised more than Phillips the difficulty of maintaining the prestige of the Museum on the small income which the Society possessed. From time to time he made suggestions for additional cases which the Council willingly granted, but the cost in nearly all cases was wholly or partly borne by them.

Phillips was an incessant worker, full of energy and naturally looked for some adequate recompense for his labours, but the hands of the Council were tied by reason of the financial condition of the Society. Moreover he evidently was not satisfied with the assistance given by the Honorary Curators. Finally on January 4th, 1841, Phillips intimated that it was no longer practical for him to carry out the duties of Keeper of the Museum. I can find no recorded reason for his resignation other than the above, or any vote of thanks for his services, but as we have previously stated, the Society was not in a financial position to properly remunerate him. He continued, however, as Honorary Keeper until 1844. Immediately after his resignation the Museum and Gardens were placed in the hands of Mr. H. Baines, with the title of Sub-Curator and Superintendent. No new Keeper was appointed until 1844.

In 1841 there appeared his "Figures and Description of Palæozoic Fossils of Cornwall, Devon and West Somerset," and in the following year he commenced a geological survey of the Malvern Hills. This masterly piece of work was published by the Geological Survey in 1849.

In 1844 he was appointed Professor of Geology in the University of Dublin, and in the following year was awarded the Wollaston medal by the Geological Society of London.

In 1853 he became Deputy-Reader in Geology in the University of Oxford, and on Dean Buckland's death in 1856, he succeeded to the Chair, which he held to the end of his life. He was chosen President of the Geological Society of London in 1859, and he delivered the Rede Lecture to the University of Cambridge, in May, 1860. Four years later he was elected President of the British Association for 1865.

Apart from museum and professional duties, Phillips devoted much time to research, as is evidenced by his numerous writings, and in addition to his valuable geological works and memoirs, he published a number of astronomical papers of the highest importance.

In the University Museum at Oxford, he continued to put into practice the views he had held at York, and no doubt here he had a freer hand, much to the advantage of the Museum and its collections.

On the 23rd of April, 1874, when, in crossing the top of a staircase in All Saints' College, his foot slipped, and he fell headlong down a flight of stone steps. He was picked up unconscious, and died about 1 o'clock of the morning of the 24th. He was just over 73 years of age.

His remains were brought to York, and the coffin was placed in the vestibule of the Museum until the funeral started at 10.30 the following morning. His remains were interred in the York Cemetery. The Great Peter bell of the Cathedral was tolled from 10 to 11.30 a.m.

To the end of his life Phillips was very proud of, and deeply interested in the welfare of the Yorkshire Museum and the Philosophical Society.

From his letters we learn much, but space forbids that I should refer to more than a few items. He followed most carefully the proceedings of the Monthly Meetings, and attended some of them.

He regarded the Museum "as a foundation for the illustration and study of the Natural History and Antiquities of Yorkshire." "I am tempted to think," he writes, "that there is less energy than formerly in the Society as a body, though all the old members who survive are still true to their standards, and may say with Davies, Kenrick, and Allis and others—*"Canitem galeā premimus."*"

So far as I can learn he was averse to popular lectures, but strongly in favour of the Monthly Scientific Meetings. He remarks that the "last meeting of the Society was marked by as creditable communications as can be quoted from any Society in England, not excluding the Metropolis." Again he

inquires “When these Seniors (*Senatores nostri*) shall have gone to their honoured rest, will their places be filled by men as learned in their several paths of study, and as zealous to maintain the good uses of the Yorkshire Museum and Philosophical Society?”

As an “early member and officer of the Society” he thinks that “if there be a deficiency in the Library Fund; if the old Laboratory, which was of use to Harcourt, myself, and others, be out of order; if there be any marked defect in the Collections—to remedy these should be the very first object.”

Writing to Mr. T. S. Noble, the Honorary Secretary, he says, “I would light up the Museum,” and lays down the law that lectures should “absolutely be restricted to an hour, including President’s opening words.”

Of the office of Honorary Curator he has much to say; “they are agents of the Society of a most valuable kind,” “if it were possible to find men enough disengaged from other pursuits to give continued attention to their departments.” Again “Honorary Curators can be named, but they find it impracticable to give regular attention to the duty expected; they have other and more pressing engagements. In this (which is the common) case, a salaried Curator is appointed and nearly all the work of the Society is entrusted to him, often with insufficient remuneration, and little help or encouragement to augment his knowledge or resources. Such institutions usually decline; fall asleep; are forgotten.”

He writes that the Keeper of any Museum should “bring high intellectual culture and energy to stimulate the body of which he should be the “*vivida vis animi.*”

No one connected with Museum organization and administration or with the history and progress of geology can doubt for a moment that Phillips was a man in advance of his time. It has been remarked by Professor Kendall that “his keenness of observation and insight are the marvel of a later generation of workers.” Writing over half-a-century ago, he warned the Society that if, in appointing their salaried Museum Staff, “a person of inferior education be selected, the very purpose of the whole arrangement is defeated.” Again if a man of University rank and attainments is desired, but not

adequately remunerated “he enters on a course of study, and finds it impracticable to advance while under engagements of a miscellaneous nature from 10 to 4, or between other hours. He has been accustomed to the highest intellectual life, and now he is practically deprived of it. His income is too small, he engages in more profitable work, and the Society is no longer the object of his hopes and exertions.”

We could quote more fully this first Keeper of the Yorkshire Museum, but space forbids. He has set his stamp and seal upon the Museum and the Society for all time, and so long as the present and future generation are imbued with such a practical, and at the same time, lofty outlook, so long will the Society and its Museum continue to flourish, and prove a source of learning and culture unobtainable by any other means.

In 1870, Phillips, who had a lease of St. Mary's Lodge, proposed to surrender the same on condition that the Society placed to a “Purchase Fund” the sum of £30 annually, for the purpose of purchasing specimens for the Museum. He suggested that no purchases be made until the Fund reached £500, and he promised to make additions to it from time to time or at his decease. We have failed to find that this suggestion, unfortunately, was ever acted upon.

Speaking before the Society on May 5th, 1874, the Rev. John Kenrick said, “I knew Professor Phillips when he made his first appearance in York, as the modest assistant of his uncle, and having been a member of the Society since its foundation, I know how much it owes to him for the prosperity and reputation which it has attained. As secretary, he displayed remarkable aptitude in conducting its business affairs. As Keeper of the Museum, he displayed its treasures to the best advantage, and arranged them on the most approved scientific principles. There are not a few of our present members who can call to mind the charm of his public lectures. He possessed, in rare and happy union, talents seldom found together. He knew how to select, from the material with which an all comprehensive knowledge supplied him, the most essential and striking facts. And he presented them in lucid order, and well-chosen words, which he poured forth in an

unbroken stream. His kindly and genial nature won him many friends, whose attachment endured through life. He repaid the esteem and affection with which he was regarded among us by an attachment to this county in which no native Yorkshireman could surpass him."

"The Rivers, Mountains and Sea-coast of Yorkshire" were dear to him above all others; his last labour was spent in perfecting his illustrations of them. Here his happiest years were passed; here his most enduring friendships were formed.

When he converted at great cost an unsightly encumbrance of our grounds into a characteristic ornament, it was in the hope that St. Mary's Lodge would be the retreat of his later years. He had himself chosen the spot where his remains should rest. There we have seen them, reverently and sadly deposited, besides those of his beloved sister. *Funxit amor vivos; nunc jungit terra sepultos.*

It will be long, I feel assured, before the memory of John Phillips will cease to be cherished in this place of his adoption, abounding as it does with traces of his zeal for the interests of our Institution."

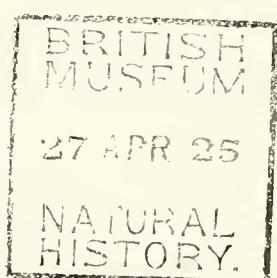
After this graceful tribute it was resolved—"That the members of the Yorkshire Philosophical Society, assembled for the first time since the death of Professor Phillips, desire to place on record the feelings with which they have been impressed by that melancholy event. While other scientific bodies lament in his death the extinction of one of the great lights of science, the Yorkshire Philosophical Society has a debt of gratitude to pay to the memory of one from whom it has received the most important services. They feel that to him is due much of the prosperity to which the Society has attained; the richness of its Museum, and the admirable manner in which its treasures are displayed. They desire to testify their admiration of the talents which, united with industry and devotion to science raised him to so high a rank among its cultivators. Above all, they cherish the memory of the moral and personal qualities by which his character was distinguished, and which secured him the warm attachment of those who knew him intimately, and the general esteem of his fellow-citizens."

In the half-century that has passed away since Phillips' death, the Yorkshire Philosophical Society has passed through many troublous and anxious times, but under the guidance of various Councils it has weathered them and added to its prestige.

Its collections are unrivalled outside London, and we agree with those who guided its destiny in the past "that all who have observed its progress, will think it deserving of a liberal support; those who fostered it in its infancy, will not desert it in its more mature existence."

No words of mine could more adequately point out the need the Society has at the present time of more liberal support from York and Yorkshire, and I cannot think that they will prove unmindful of their duty and their privilege.

In the contemplated and much needed enlargement or rebuilding of the Yorkshire Museum, if geologists and others would provide the means for a John Phillips Geological Department, it would prove a fitting memorial to the subject of this article and to one of the founders of geological science in Great Britain.



Museum Publications.

*The following Publications may be obtained on application to
the Museum Attendant:*

		s. d.
1.	BACKHOUSE, J.—A Vanishing Yorkshire Village, pp. 11 & 3 plates	1 0
2.	BELL, ALFRED.—Notes on the Later Tertiary Invertebrata, pp. 21 & 2 plates	1 0
3.	BELL, ALFRED.—On the Pleistocene and Later Tertiary British Insects, pp. 11	0 6
4.	BENSON GEORGE.—York from its Origin to the end of the 11th Century, pp. xii. and 95, 40 figs. & maps. Cloth.	10 6
5.	BENSON, GEORGE.—Coins: especially those relating to York, pp. 104 & 8 plates	4 0
6.	BENSON, GEORGE.—Later Mediæval York, pp. xii. & 167, 67 figs. & maps	6 0
7.	BENSON, GEORGE.—Excavations on the Site of the N.W. Gateway of Eboracum, pp. 4 & 5 plates ...	1 0
8.	BENSON, GEORGE.—Notes on an Intrenchment on Holgate Hill, pp. 2 & 4 plates	0 6
9.	BENSON, GEORGE.—The Church and Parish of S. Martin-cum-Gregory, pp. 12 & 4 plates ...	1 0
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11.	BENSON GEORGE.—Notes on a Cobble-road, pp. 2, 3 figs. & plan	0 6
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WALTER E. COLLINGE,
Keeper of the Museum.

APRIL, 1925.

